**Safety Data Sheet (SDS)** 

Revision Number: <b>3.0</b>	Last updated March 18, 2021
1. Product and Company Identification	<u>n</u>
Product Name:	Caspase 3 (Apopain) Substrate 1r - z, fluorogenic
	Benzyloxycarbonyl - DEV D - Rh110
	The real sequence is: (Z- DEVD)2 - Rh110
Manufacturer/Supplier:	AnaSpec, Inc.
	www.anaspec.com
	34801 Campus Drive
	Fremont, CA 94555
	Tel: 510-791-9560
	Fax: 510-791-9572
	Email: service@anaspec.com
	Vanaka Eurogantaa SA
	Kaneka Eurogentec SA,  Puo du Pois Saint Joan 5 4102 Saraing Polgium
	Rue du Bois Saint Jean 5 4102 Seraing Belgium
	Tel. +32-4-3727400
	Fax. +32-4-3727500
	E-mail info@eurogentec.com
	Kaneka Eurogentec Helpdesk
	Tel. +32-4-3727665
Catalog Number	AS-60304-5
Relevant identified uses of the	For laboratory use only.
substance/preparation and uses advised against	of laboratory use only.
Emergency information	Please contact the regional Eurogentec representation in your
	country or Kaneka Eurogentec S.A. directly (from 8 am to 6
	pm)
2. Hazards Identification	
	commend handling all chemicals with caution. Use proper dling chemicals. To our knowledge, the hazards of this material
have not been thoroughly investigated.	
•	angerous substance according to the GHS cards: Not a dangerous substance according to the GHS
GHS Signal Words: None	

GHS Hazard Statements: None

GHS Precautionary Statements: None

Potential Health Effects for:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Good hygiene practice requires that exposure be kept to a minimum and that suitable control

measures be used in an occupational setting.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with soap and copious amount of water.

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Chronic Exposures: No information available. We recommend limiting prolonged exposure.

Target Organs: No information available

HMIS Classification

Health hazard: 0

Chronic Health Hazard: 0

Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

# 3. Composition

Ingredients/Components:

Chemical Name: Caspase 3 (Apopain) Substrate 1r - z, fluorogenic

Benzyloxycarbonyl - DEV D - Rh110

The real sequence is: (Z- DEVD)2 - Rh110

Molecular formula: NA Molecular weight: 1518.5

CAS-No NA EC-No NA

## 4. First Aid Measures

Inhalation:	If dust is inhaled, remove from contaminated area.				
Trincitation.	Encourage patient to blow nose to ensure clear passage of breathing.				
	If irritation or discomfort persists seek medical attention.				
Ingestion:	If swallowed do <b>NOT</b> induce vomiting.				
	If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to				
	maintain open airway and prevent aspiration.				
	Observe the patient carefully.				
	Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably				
	drink.				
	Seek medical advice.				
Skin:	If skin or hair contact occurs:				
	Flush skin and hair with running water (and soap if available).				
	Seek medical attention in event of irritation.				
Eyes:	If this product comes in contact with the eyes:				
	Wash out immediately with fresh running water.				
	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the				
	eyelids by occasionally lifting the upper and lower lids.				
	If pain persists or recurs seek medical attention.				
	pain persons of reeds seek medical accounts				

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Extinguishing media:		Water spray or fog.
		Alcohol resistant foam.  Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
Special firefighting procedures:		Alert Emergency Responders and tell them location and nature of
		hazard.
		Wear breathing apparatus plus protective gloves.
		Prevent, by any means available, spillage from entering drains or water
		course.
		Use water delivered as a fine spray to control fire and cool adjacent
		area.  DO NOT approach containers suspected to be hot.
		Cool fire exposed containers with water spray from a protected location.
		If safe to do so, remove containers from path of fire.
		Equipment should be thoroughly decontaminated after use.
		Equipment should be thoroughly decontainmated after use.
Unusual fire and explosions hazards:		Emits toxic fumes under fire conditions
6. Accidental Release	Measures	
Spill response	Remove a	ll ignition sources.
	Clean up all spills immediately.	
	Avoid contact with skin and eyes.	
	Avoid con	nact with skin and eyes.
		ersonal contact by using protective equipment.
	Control pe	
	Control pe Use dry cl Place in a	ersonal contact by using protective equipment. ean up procedures and avoid generating dust. suitable, labeled container for waste disposal
Containment	Control pe Use dry cl Place in a Avoid all	ersonal contact by using protective equipment. ean up procedures and avoid generating dust. suitable, labeled container for waste disposal personal contact, including inhalation.
Containment	Control pe Use dry cl Place in a Avoid all J Wear prot	ersonal contact by using protective equipment. ean up procedures and avoid generating dust. suitable, labeled container for waste disposal personal contact, including inhalation. ective clothing when risk of exposure occurs.
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Containment	Control pe Use dry cl Place in a Avoid all J Wear prot Use in a w DO NOT Avoid con When han Keep cont Avoid phy Always w Use good Empty con following source.	ersonal contact by using protective equipment. ean up procedures and avoid generating dust. suitable, labeled container for waste disposal  personal contact, including inhalation. ective clothing when risk of exposure occurs. vell-ventilated area. enter confined spaces until atmosphere has been checked. allow material to contact humans, exposed food or food utensils. etact with incompatible materials. dling, DO NOT eat, drink or smoke. ainers securely sealed when not in use. vsical damage to containers. ash hands with soap and water after handling. occupational work practice. ntainers may contain residual dust which has the potential to accumulate
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8. Exposure Controls	/ Personal Protection			
Engineering controls	even when particulates are relatively large, a certain proportion will be powdered by			
	mutual friction.			
	Exhaust ventilation should be designed to prevent accumulation and re-circulation of			
	particulates in the workplace.  If in spite of local exhaust an adverse concentration of the substance in air could occur,			
		on should be considered. Such protection might consist of:		
	1 0 1	pirators, if necessary, combined with an absorption cartridge;		
		with absorption cartridge or canister of the right type;		
	(c): fresh-air hoods or masks			
		tatic charge on the dust particle, may be prevented by bonding and		
	grounding.			
		er handling equipment such as dust collectors, dryers and mills may require		
		n measures such as explosion venting.		
		enerated in the workplace possess varying "escape" velocities which,		
		ne "capture velocities" of fresh circulating air required to efficiently		
	remove the contami			
PPE	Use personal protec	tive equipment		
9. Physical and Chemi				
Physical State	Off-White Solid			
Odour	Not available			
Solubility in Water	Not available			
Specific Gravity		Not available		
рН	Not available			
Boiling Point	Not available			
Melting Point	Not available			
Flash Point		N/A		
Vapor Pressure:		N/A		
Vapor Density:	N/A			
10. Stability and Read	<u>tivity</u>			
Thermal Decomposition	ı	No data available		
Dangerous Products of	Decomposition	No data available		
Dangerous Reactions		COx, NOx when burned		
		· · · · · · · · · · · · · · · · · · ·		
Keep container tightly of	closed in a dry well-ve	ntilated place. Store in -20 °C, dry refrigerator.		
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11. Toxicological Information				
	<u> 1 1114U011</u>	F		
RTECS Number		N/A		

No information available.

**Toxicity** 

Health Hazards	Although ingestion is not thought to produce harmful
	effects, the material may still be damaging to the
	health of the individual following ingestion, especially
	where pre-existing organ (e.g. liver, kidney)
	damage is evident. In an occupational setting however,
	ingestion of insignificant quantities is not thought to be
	cause for concern.
Potential Hazards	Not available
Carcinogenicity:	No significant acute toxicological data identified
OSHA Permissible Exposure Limit(PEL) Data	N/A
ACGIH Threshold Limit Values (TLV)	N/A

Reproductive Toxicity:

No information available

### 12. Ecological Information

No information available.

### 13. Disposal Considerations

All waste must be handled in accordance with local, state and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

### 14. Transport Information

Hazard Class	N/A
Identification Number	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

#### 15. Regulatory Information

California Proposition 65: N/A

US TSCA (Toxic Substance Control Act): N/A

US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act: N/A

US SARA Title III (Superfund Amendments and Reauthorization Act: N/A

US Other: N/A

EC EINICS (European Inventory of Existing Commercial Chemical Substances) Number: N/A

EC Risk Statements: N/A

Other Country Regulations: N/A

### 16. Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make

independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.